

Truck and Bus Regulation: Agricultural Provision Reporting Training



February - March 2011
Mobile Source Control Division



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Outline

- Overview of the rule consistent with amendments considered by the Board in December 2010
- Agricultural provision
- How to report

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Areas of the State not meeting Federal Air Quality Standards

8-Hour Ozone



15 areas violate the standard

PM_{2.5} Annual



2 areas violate the standard

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Diesel Particulate Matter Exposure

- 70% of known cancer risk from all air toxics
- Trucks and buses largest source of diesel particulate matter (PM)
- Diesel Risk Reduction Plan adopted in 2000
 - Risk reduction goals by 2010 and 2020
 - Stringent New Engine Standards
 - Cleaner Diesel Fuel (< 15 ppm sulfur)
 - Ensure In-Use Emissions Performance
 - Aggressive Reductions from In-Use Engines

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In-Use Diesel Regulatory Activity

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Urban Buses (2000) • Garbage Trucks (2003) • School Bus Idling (2003) • Stationary Engines (2004) • TRUs (2004) • Truck and Bus Idling (2004) • Portable Engines (2004) • Transit Fleet Vehicles (2005) | <ul style="list-style-type: none"> • Public Fleets & Utilities (2005) • Cargo Handling Equipment at Ports and Rail Yards (2005) • Port Trucks (2007) • Off-Road Vehicles (2007) • Truck and Bus Regulation (2008) • Off-Road Agricultural Vehicles (Planned for 2011 or later) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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Truck and Bus Regulation

Applicability

- Diesel trucks and buses operating in California
 - Greater than 14,000 pounds gross vehicle weight rating (GVWR)
 - Agricultural use yard trucks with off-road engines
 - Interstate, intrastate, international, and other
- Any person, business, or government agency who owns, leases, rents, or sells a vehicle in California
- California based brokers and dispatchers

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Truck and Bus Regulation

Applicability Continued

- **Excludes:**
 - Emergency vehicles
 - Military tactical vehicles
 - Personal use motor homes
 - Historic vehicles
 - Two-engine cranes, two-engine drill rigs, workover rigs
 - Personal use pickup trucks under 19,500 lbs GVWR
- Excludes most vehicles subject to other in-use regulations
 - Local and state government owned vehicles
 - 1960-2006 MY solid waste collection vehicles
 - Public urban buses/transit fleet vehicles
- Private utility become subject in 2021

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Truck and Bus Regulation

Examples of Vehicle Types



Concrete Mixer



Dump Truck



Single Engine Drill Rig



Water Truck



Hay Squeeze



Tow Truck



Reefer Van



Fuel Tank Truck



Passenger Bus

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Truck and Bus Regulation

Status

- Initially considered December 2008
- Currently in effect
- Amendments considered December 17, 2010
- Additional 15-day public comment period
 - Construction vehicles
 - Clarifications
- Ag letters



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Truck and Bus Regulation

Emission Control Terminology

- "PM filter"
 - Originally equipped on engines since 2007
 - Most effective PM filter retrofit on existing engines
 - Verified Diesel Emission Control Strategy (DECS)
 - www.arb.ca.gov/msprog/decsinstall/decsinstall.htm
- "Replace with 2010 engine"
 - Engine manufactured 2010 or later
 - Existing engine retrofit with PM/NOx retrofits
 - NOx retrofits not currently available

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Truck and Bus Regulation

Regulation Overview

- Compliance schedule by weight & engine model year
 - No reporting required
 - No PM filters for lighter trucks
- Added flexibility for heavier trucks with reporting
- Provisions for special cases and lower use
- Credits for early action and cleaner vehicles
- Sales disclosure requirement

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Truck and Bus Regulation

Lighter Trucks & Buses

GVWR 14,001 to 26,000 pounds

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Truck and Bus Regulation

Compliance Schedule for Lighter Trucks*

- Replace 20 year old engines starting 2015
 - 2010 or newer
 - A used truck with a future compliance date
- All 2010 by 2023
- No PM filter requirement
- No reporting required

Engine Model Year	Replace with 2010 engine by:
1995 & older	January 1, 2015
1996	January 1, 2016
1997	January 1, 2017
1998	January 1, 2018
1999	January 1, 2019
2003 & older	January 1, 2020
2004-2006	January 1, 2021
2007-2009	January 1, 2023

*Vehicles 14,001 to 26,000 lbs GVWR

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Truck and Bus Regulation

Compliance Credit for Lighter Trucks*

- Install PM filter by 2014, exempt from replacement until 2020
- Credit towards heavier truck if lighter truck equipped with a PM retrofit by July 1, 2011
- Reporting required
- No other compliance options
- Few other extensions

*Vehicles 14,001 to 26,000 lbs GVWR

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Truck and Bus Regulation

Heavier Trucks & Buses GVWR more than 26,000 pounds

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Truck and Bus Regulation

Compliance Schedule for Heavier Trucks*

- PM filters on newer trucks 2012-2014
 - Replace after 8 years
- Replace older trucks
 - 2010 engine or
 - Used truck with future compliance date
- All 2010 engines by 2023
- No reporting required

Engine Year	Requirement
Pre-1994	No requirements until 2015, then 2010 engine
1994-1995	No requirements until 2016, then 2010 engine
1996-1999	PM filter from 2012 to 2020, then 2010 engine
2000-2004	PM filter from 2013 to 2021, then 2010 engine
2005-2006	PM filter from 2014 to 2022, then 2010 engine
2007-2009	No requirements until 2023, then 2010 engine
2010	Meets final requirements

*Vehicles more than 26,000 lbs GVWR

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Truck and Bus Regulation

Phase-In Option for Heavier Trucks*

- Provides more flexibility
- Report all heavier trucks by January 31, 2012
- Originally equipped PM filters count
- Upgrade to 2010 engines starting 2020

Compliance Date	Vehicles with PM Filters
January 1, 2012	30%
January 1, 2013	60%
January 1, 2014	90%
January 1, 2015	90%
January 1, 2016	100%

*Vehicles more than 26,000 lbs GVWR

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Truck & Bus Regulation

Credits for Heavier Trucks*

- Reduce requirement in phase-in option
 - For fleets downsized since 2006
 - PM filter installed before July 1, 2011
 - Adding fuel efficient hybrids & alternative fueled
 - Early purchase of 2007 or newer engines before 2012
- Credits expire January 1, 2017
- Reporting required

*Vehicles more than 26,000 lbs GVWR

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Small Fleet* Option for Heavier Trucks**

- Phase-in option for heavier trucks
 - First PM filter by 2014
 - Second PM filter by 2015
 - All must have PM filter by 2016
- Replace engines that cannot be retrofit by 2018
- Upgrade to 2010 engines starting 2020
- Reporting starts January 31, 2012

* Small fleets are one to three trucks over 14,000 lbs GVWR

** Vehicles more than 26,000 lbs GVWR

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PM Filter Options for Heavier Trucks*

- Any truck equipped with a PM filter by January 1, 2014 complies until 2020
- PM filter on all heavy trucks in fleet by 2014, no replacements until 2023
- Report by January 31, 2014

*Vehicles more than 26,000 lbs GVWR

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Additional Provisions Summary

- Low use
- Agricultural vehicles
- Log truck option
- NOx exempt areas
- Construction trucks

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Low Use Extensions for All Trucks

- Low Use Provision
 - Exempt from cleanup
 - Less than 1000 miles in California and
 - Less than 100 hours of PTO for stationary work
 - Emergency use excluded from usage
- Three day pass
 - 3 day permit to operate a non-compliant truck
 - One vehicle per year per company
- Reporting required

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Agricultural Vehicle Provision Summary

Delay emission reductions until 2017 or 2023

- Dedicated agricultural vehicles
- Stay below the mileage thresholds
- Apply by March 31, 2011 then report annually on January 31st
- Limited to fleet size on January 1, 2009
- Label both vehicle doors with "AG"
- No mileage limits for specialty vehicles



Agricultural Operations

- The activity of growing or harvesting crops for the primary purpose of making a profit or providing a livelihood including any horticultural, viticultural, aquacultural, forestry, dairy, livestock, poultry, bee or farm product
 - Excluded raising plants at nurseries exclusively for retail
- The cutting or removing of timber and other solid wood products such as Christmas trees and biomass for commercial purposes
 - Excludes conversion of forest lands to other land uses

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Agricultural Vehicle Mileage Limits

- Begin January 1, 2011
- Delay until 2017 based on engine model year

Engine Year	Annual Mileage Limits
2006 or newer	25,000
1996-2005	20,000
Pre-1996	15,000

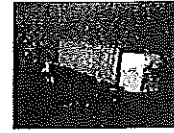
- Extension continues until 2023 for trucks operated less than 10,000 miles/yr since January 1, 2011

* 2007 and newer engines need not be considered agricultural vehicles

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Specialty Agricultural Vehicle Extension

- Compliance delayed until January 1, 2023
- Must be approved for extension, apply by March
- Limited to 2,200 statewide, 1,100 in the San Joaquin Valley
- Unlimited miles



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Specialty Agricultural Vehicles

- Body and use type
 - Cotton module movers
 - Farmer-owned water trucks, not for hire
 - *Feed trucks that dispense feed to livestock. Not to resupply storage silos.*
 - Exclusively supplies crop dusting aircraft
 - *Lettuce harvest trucks with self loading beds (Fabco truck)*

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Limit on Number of Qualifying Trucks

- May not exceed fleet size as of January 1, 2009
- Total number of qualifying vehicles cannot increase from year to year

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Agriculture Vehicle Replacement

- Replacements must be one model year newer
- Can replace with any other vehicle if:
 - Combined mileage placed in service must remain below threshold of original vehicle in the compliance year
 - In next compliance year, mileage limit is based on the model year of replacement vehicle
 - Report odometer readings and document changes

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Agricultural Vehicle Definitions

- Farmer owned to support operations
- Non-farmer owned
 - Fertilizer or pesticides delivery truck
 - Specially designed for ag use (in-field)
 - Farm to first processor trucks



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Farmer Owned Trucks

- Owned by a "farming business"
 - Owner/tenant managing a farm for profit
- Used for supporting farming operations or to transport harvested crops
 - Includes bee keeping businesses
 - Service trucks, cattle trucks, flatbeds, etc.
- Excludes:
 - Personal-use vehicles
 - Vehicles that are rented or *leased for non-ag use*
 - Vehicles used in transportation business

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Farming Business

- Business involved in the cultivating, operating, or managing a farm for profit, either as owner or tenant
 - Excludes providing agricultural services such as, landscape services, veterinary services, farm labor or management for a fee or on contract basis, or engaged in the business of artificial insemination, or raising or caring for dogs, cats and other pet animals
- Forest harvest

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Fertilizer or Pesticide Delivery Trucks

- Non-farmer owned
- Company must have valid fertilizer or pest control license
- Used exclusively to deliver chemicals (fertilizer and pesticides) that require placards from distribution center to farm

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Designed for In Field Work

- Non-farmer owned
- May still qualify if not farmer owned
 - Trucking company or farm service provider
- Designed for in-field operations
 - Manure spreaders, feed mixers, free stall bedding, water trucks, hay squeeze
- Excludes:
 - Trucks and buses used to pick up or deliver supplies, equipment, or to transport people

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Examples of Trucks Designed for In Field Work



Feed Mixer Truck



Spreader Truck



Hay Squeeze

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Farm to First Processor Trucks

- May still qualify if not farmer owned
 - Trucking company or farm service provider
- Used to haul unprocessed products between farm "first point of processing"
- Includes on road & off road agricultural yard trucks
- Does not include transport of processed loads

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First Point of Processing

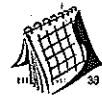
- First location where harvested crops are altered from their original state
 - Packinghouse, slaughterhouse, cotton gin, huller, lumber mill, grain mill, food processor, biomass facility, cooler
- Excluded:
 - Distribution centers, wholesale and retail locations where first processing does not occur, livestock auction houses



Tomato Truck

Important Dates for Agricultural Fleets

- **January 1, 2011** – Record odometer reading for all qualifying agricultural vehicles
- **March 31, 2011** – Last chance to report to qualify for the agricultural provision
 - Include trucks in the fleet on January 1, 2009
 - Permanently affix or paint "AG" on the left and right door (3" white block letters on 5"x8" black background)
- **January 31, 2012** – Report January 1 mileage each year thereafter



Log Truck Option

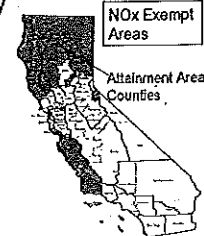
- Report by January 2012
- Phase-in 2010 engines
- No PM retrofits
- Total number eligible may not increase
 - Jan 1, 2009 baseline
- Statewide with no mileage limits
- Must have "AG" label on both doors

January 1	2010 engines
2014	10%
2015	20%
2016	30%
2017	40%
2018	50%
2019	60%
2020	70%
2021	80%
2022	90%
2023	100%



NOx Exempt Area Operation

- Vehicle operated exclusively in NOx exempt areas
- Delay until 2014
- All PM filters by 2016
- No replacements needed
- Label on both doors or electronic tracking
- Report by January 31, 2012



NOx Exempt Area Counties - Alpine, Colusa, Del Norte, Glenn, Humboldt, Lake, Lassen, Mendocino, Modoc, Monterey, Plumas, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz, Shasta, Sierra, Siskiyou, Sonoma (northern), Trinity, Tehama, and Yuba 40

Low-Mileage Construction Trucks

- Report by January 31, 2012
- Dump trucks and other construction trucks
- Operate less than 15,000 miles per year
- Phase in PM filters 2014 to 2016
- Label "CT" on both doors
- 15-day changes

Reporting Requirement

- No reporting for fleets using model year compliance schedule
- **March 31, 2011**
 - Agricultural vehicle provisions
 - Sweepers with secondary tier 0 engines
- **January 31, 2012**
 - All flexibility options
- On-line reporting & credits
 - Truck Regulations Upload and Reporting System (TRUCRS)

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Truck and Bus Regulation

Key Information for Reporting

- Owner contact information
 - Company and corporate name, motor carrier identification number, address, contact information
- Vehicle information
 - Vehicle type, VIN, manufacturer, model, GVWR, model year, license plate number, registration information
- Engine information
 - Engine manufacturer, model, family, serial number (found on engine), model year, on-road or off-road, engine use, engine emission certification
- Verified diesel emission control technologies
 - Type, manufacture, family name, serial number, date installed

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Engine Emission Control Label (ECL)

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Reporting Letter

AR Reporting System

Motor Carrier ID: _____

Vehicle ID: _____

Engine ID: _____

Reporting Date: _____

Reporting Status: _____

Reporting Type: _____

Reporting Method: _____

Reporting Frequency: _____

Reporting Period: _____

Reporting Location: _____

Reporting Contact: _____

Reporting Notes: _____

Summary of Information Reported

Motor Carrier ID: _____

Vehicle ID: _____

Engine ID: _____

Reporting Date: _____

Reporting Status: _____

Reporting Type: _____

Reporting Method: _____

Reporting Frequency: _____

Reporting Period: _____

Reporting Location: _____

Reporting Contact: _____

Reporting Notes: _____

Truck and Bus Regulation

How do I Report?

- 1-866-6DIESEL (866-634-3735)
- Visit Truck and Bus Website:
www.arb.ca.gov/dieseltruck
- Click on "Reporting Forms" button

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TRUCRS – Request an Account

- Please use your account/password information in your letter
- Do not establish a new account unless this is your first time reporting
- Use Internet Explorer

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Request an Account

TRUCK AND BUS REPORTING

Home

Sign Up for Your New Account


All of the information below is required to register for a new account. Your password could be at least 8 characters and can include letters, numbers and special characters. Your phone number must be:

- Your Name: John Doe
- Password: 12345678
- Confirm Password: 12345678
- Email: john.doe@company.com
- First Name: John
- Last Name: Doe
- Phone Number: 1111111111

[Go to New Account]

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TRUCRS - Log into Account


CALIFORNIA AIR RESOURCES BOARD


TRUCK AND BUS REPORTING

[User Guide](#)

Welcome to the Truck Regulations Upload and Compliance Reporting System (TRUCRS) for reporting information about vehicles subject to the Truck and Bus Regulation. Here you have access to your company, fleet, and vehicle information you reported.

To get started, you'll need to login with your username and password. You can do this by either using the username and password provided to you in a letter from the Air Resources Board or if you already have a TRUCRS account, you may use your existing username and password.

TRUCRS - Homepage


CALIFORNIA AIR RESOURCES BOARD

TRUCK AND BUS REPORTING


[User Guide](#)

Welcome to the Truck and Bus Reporting Home page. From this page you have three options:

- A New Owner:** If you have not entered data before or you have a separate fleet, you can click the "Add New Owner" button to add the company information.
- Fleet Summary:** This is to modify existing fleet vehicle information, including adding new vehicles, modifying a vehicle's data, or deleting a vehicle. From this page, you can click the "Fleet Summary" button to view a list of all vehicles in your fleet.
- Vehicle Data:** Click on this button to update your company information and contact person. If you have a vehicle data, you can click the "Vehicle Data" button to add or modify vehicle information.

For help creating, modifying, or editing an account, contact the User Guide. Also, what would like to be able to report your data by providing your company information as a vehicle. If you would like to be able to report your data by providing your company information as a vehicle, please call the AIR RESOURCES BOARD at 916-227-2323.

TRUCRS - Add New Owner


CALIFORNIA AIR RESOURCES BOARD

TRUCK AND BUS REPORTING


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TRUCRS - Fleet Summary


CALIFORNIA AIR RESOURCES BOARD

TRUCK AND BUS REPORTING


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TRUCRS – Update Vehicle

TRUCK AND BUS REPORTING

Name

Add a New Owner

Find Company

New/Left Owner

Admin Tools

TRUCKS AND BUSES Company

[View Guide](#)

Please click the "Add A Vehicle to your Fleet" to add a vehicle you would like to report. [Add a vehicle to your Fleet](#)

FLEET SUMMARY

	Company	Vehicle	Year	Make	Model	Color	Weight	Engine	Trans	Drive	Reg	Ins	Env	Other	Total
Search Entry	ABC COMPANY	123456789	2012	FORD	F-150	WHITE	7000	3.5L	4A	4WD	Y				1
Search Entry	DEF COMPANY	987654321	2011	CHEV	SILVERADO	BLACK	6500	4.8L	4A	4WD	Y				1
Search Entry	GHI COMPANY	234567890	2010	RAM	2500	GRAY	7500	5.7L	4A	4WD	Y				1
Search Entry	JKL COMPANY	345678901	2009	DODGE	RAM	WHITE	7000	3.7L	4A	4WD	Y				1
Search Entry	MNO COMPANY	456789012	2008	CHEV	SILVERADO	BLACK	6500	4.8L	4A	4WD	Y				1
Search Entry	PQR COMPANY	567890123	2007	FORD	F-150	WHITE	7000	3.5L	4A	4WD	Y				1
Search Entry	STU COMPANY	678901234	2006	CHEV	SILVERADO	BLACK	6500	4.8L	4A	4WD	Y				1
Search Entry	VWX COMPANY	789012345	2005	RAM	2500	GRAY	7500	5.7L	4A	4WD	Y				1
Search Entry	YZA COMPANY	890123456	2004	DODGE	RAM	WHITE	7000	3.7L	4A	4WD	Y				1
Search Entry	BCD COMPANY	901234567	2003	CHEV	SILVERADO	BLACK	6500	4.8L	4A	4WD	Y				1
Search Entry	EFG COMPANY	012345678	2002	FORD	F-150	WHITE	7000	3.5L	4A	4WD	Y				1
Search Entry	HIJ COMPANY	123456789	2001	CHEV	SILVERADO	BLACK	6500	4.8L	4A	4WD	Y				1
Search Entry	KLM COMPANY	234567890	2000	RAM	2500	GRAY	7500	5.7L	4A	4WD	Y				1
Search Entry	NOP COMPANY	345678901	1999	DODGE	RAM	WHITE	7000	3.7L	4A	4WD	Y				1
Search Entry	QRS COMPANY	456789012	1998	CHEV	SILVERADO	BLACK	6500	4.8L	4A	4WD	Y				1
Search Entry	TUV COMPANY	567890123	1997	FORD	F-150	WHITE	7000	3.5L	4A	4WD	Y				1
Search Entry	WXY COMPANY	678901234	1996	CHEV	SILVERADO	BLACK	6500	4.8L	4A	4WD	Y				1
Search Entry	ZAB COMPANY	789012345	1995	RAM	2500	GRAY	7500	5.7L	4A	4WD	Y				1
Search Entry	BCD COMPANY	890123456	1994	DODGE	RAM	WHITE	7000	3.7L	4A	4WD	Y				1
Search Entry	EFG COMPANY	901234567	1993	CHEV	SILVERADO	BLACK	6500	4.8L	4A	4WD	Y				1
Search Entry	HIJ COMPANY	012345678	1992	FORD	F-150	WHITE	7000	3.5L	4A	4WD	Y				1
Search Entry	KLM COMPANY	123456789	1991	CHEV	SILVERADO	BLACK	6500	4.8L	4A	4WD	Y				1
Search Entry	NOP COMPANY	234567890	1990	RAM	2500	GRAY	7500	5.7L	4A	4WD	Y				1
Search Entry	QRS COMPANY	345678901	1989	DODGE	RAM	WHITE	7000	3.7L	4A	4WD	Y				1
Search Entry	TUV COMPANY	456789012	1988	CHEV	SILVERADO	BLACK	6500	4.8L	4A	4WD	Y				1
Search Entry	WXY COMPANY	567890123	1987	FORD	F-150	WHITE	7000	3.5L	4A	4WD	Y				1
Search Entry	ZAB COMPANY	6													

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TRUCRS - Update Vehicle

TRUCRS – Additional Information

- Once all vehicles are entered or updated the fleet is considered reported
- Fleet data saved for next year
- Integration with fleet calculator in future
- General reporting will be available later this year

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- Once all vehicles are entered or updated the fleet is considered reported
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The collage displays five covers of the TRUCRS User Guides. The top cover is the 'Table of Contents'. Below it, from left to right, are: 'Getting Started', 'Getting Started', 'Getting Started', and 'Getting Started'. The covers are arranged in a slightly overlapping manner, showing the variety of topics covered in the guides.

Hard Copy Forms

Truck Stop - Online Resource